

Shubhayan Saha

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EDUCATION

- **SRM Institute of Science and Technology** Chennai, India
Bachelor of Science in Computer Science: Aggr - 82.5% *2017 - Present*
- **Sri Sri Academy** Kolkata, India
Indian School of Council and Education (XII) : 92% *2015 - 2017*
- **Assembly of God Church** Kolkata, India
Indian School of Council and Education (X) : 90% *2010 - 2015*

EXPERIENCE

- **Gauis Networks** Chennai, India
Software Development Intern *Jan 2019 - Present*
 - **Responsibility:** My Primary Role involves working in their Content Curation bot built using Python with AI and also deployment on their servers. Also my work on existing websites to implement Python Scripts for automation and adding features in them.
- **National Aerospace Laboratory, CSIR-SRTP** Bangalore, India
Artificial Intelligence Research Intern *Jun 2020 - Aug 2020*
 - **Responsibility:** My research work was focused on analysing and detecting of cyclone centres from satellite images and it was mentored by chief scientist of Electromagnetics and Aerospace.
- **McZone** Chennai, India
Technical Intern *April 2020 - May 2020*
 - **Responsibility:** My Primary Role Involves building their website along with their associated companies. It also involves building their front-end as well as implementing 3D models in their websites.
- **The Graphe** Kolkata, India
Web Development Intern *Nov 2019 - Dec 2019*
 - **Responsibility:** My Primary Role involved building websites for different companies under them and deploy them. Also my work was restructuring existing websites or building a new front-end design for their various business clients.
- **SRM Institute of Science and Technology, SPARC** Chennai, India
Undergraduate Research Assistant *Jun 2019 - Present*
 - **Responsibility:** My research work revolved around implementing Image Processing and Computer Vision for extracting data and Deep Learning for deploying DR detection model.

POSITION OF RESPONSIBILITIES

- **Aakash Research Labs** Chennai, India
Technical Team Member *June 2018 - Present*
 - **Domain:** Team Aakash. a remote lab of IIT Bombay, having a reputation of creating projects based on android, electronics, web development etc which are both helpful and informative for their users. My primary work is to build websites and deploy it for various projects for different campus clubs and clients in and beyond the college campus
- **ACM Student Club** Chennai, India
Team Member *June 2018 - Present*
 - **Domain:** ACM is a volunteer-led and member-driven organization. My primary work includes a wide range of activities that keep ACM moving, including organizing conferences, organising various talk, workshop sessions and participating on boards and committees.

• Team Envision

Chennai, India

Web Development & AI Lead

June 2018 - Present

- **Domain:** Team Envision is a Multidisciplinary Technical Team of Aaruush that aims to provide solutions to most campus and societal issues. My primary work is to build websites and deploy it for various projects for different campus clubs and clients in and beyond the college campus and also participate in hackathons with the team.

• MOZILLA Campus Club

Chennai, India

Technical & Logistics Team Member

June 2017 - June 2019

- **Domain:** A Mozilla University College Club is a group of students with a passion for technology who meet regularly to advance this mission by building and innovating on open source projects, conducting hackathons and quizzes that keep the web open. My primary work was to give different plans and suggest the ways and options for conduction of various hackathons and competitions by Mozilla. Also I built websites and deployed it for various projects from different campus clubs in and beyond the college campus

SKILLS

- **Interests:** Machine Learning, Computer Vision, Natural Language Processing, Big Data, Web Development, Chatbot Development
- **Languages:** Python, Java, C, C++, Html, CSS, Javascript, PHP, Node.js.
- **Frameworks:** Keras, TFLearn, Tensorflow, OpenCV, Scikit-learn, Flask, Bootstrap, Materialize.
- **Database:** MySQL, Firebase, AWS
- **Cloud Services:** Google Cloud Platform, Heroku, Azure

PROJECTS

- **Mental Health ML - Machine Learning, CNN, Data Analysis :** Working as a Student Researcher under the faculty of SRM and collaborated along with International Universities of Singapore and Queensland University on the topic of Mental health.
- **Fake News Detection - Blockchain, AI, Data Analysis :** Working under a project mentored by SRM faculties and it's collaborated with the UP government involving blockchain and deep learning expertise to find fake news over the media houses.
- **Suraksha COVID19 - Data Analysis, Machine Learning, Python, Web Development :** Designed and Developed full stack web-app against COVID19 pandemic which provides live information to people. It also shows daily headlines, announcements along with COVID19 test centers.
- **Prognosis of Microaneurysm and early diagnosis system for non - proliferative diabetic retinopathy using deep convolution neural network :** It is a funded project by UC Davis on early detection of diabetes using deep learning.
- **Trash It - Computer Vision :** Iot and ML based Project built in Mozilla Hackathon held in the college for effective trash disposal based on Biodegradable and Non-Biodegradable. The app based UI is designed for admin panel access of the smart dustbins around the city.
- **Credit Card Fraud Detection - Data Analysis :** In this project, several methods of Anomaly detection with Probability Densities are used for finding the amount of fraud transactions and analyse the data obtained from Kaggle.
- **Samsung PRISM - Unreliable QUIC :** Worked on Google's Experimental protocol QUIC to setup multiple client sever connection to enable transfer of data packet for multiple clients under Samsung Research Center Mentors.
- **Hind Towards Change Website :** Redesigned the website of the NGO Hind Towards Change along with my team in the Aakash Research Labs.
- **Aaruush Website and Chatbot :** Built a website and also a chatbot for our college tech fest "Aaruush" for the 2019 edition of the fest using Dialogueflow by Google and Node.js as back end for API call.

COURSEWORK

- **Google Developer Student Club Workshop :** Machine Learning Crash Course, ML101 with Tensorflow, Magic of Firebase, Mobile Developer Fest
- **Coursera:** Introduction to Machine Learning by Andrew NG
- **Aptech :** PHP and MySql Certification
- **Mozilla Campus Club Workshop :** Mozilla Web Extension Workshop, Rust Workshop, Ethical Hacking Workshop
- **SRM IST:** C Programming, C++ Programming, Java Programming, Machine Learning, Big Data

EXTRA CURRICULAR ACTIVITIES

- **Corporate Strategy and Implementations, Aaruush SRM** : Student Volunteer and Committee Member of college tech fest "Aaruush" for crowd management, publicity and tickets.
- **Women 4.0 Chennai Ambassador** : Being the Chennai representative of Women 4.0, my vision has always been to empower women in the field of technology.
- **Bharat Udaan Sanstha** : Being an active member of the NGO, I have worked in providing social service and also provide technical contributions.

AWARDS ACHIEVEMENT

- **Certificate of Participation - in Samsung PRISM Work-let Unreliable QUIC** :
- **Certificate of Completion of CSIR-SRTP 2020 (June 2020 - August 2020) - NEIST Jorhat** :
- **Certificate for Project titled "Recognition of Tropical Cyclone Center and Related Parameters from Satellite Images" by CSIR - National Aerospace Laboratory, Bangalore** :
- **Certificate of Recognition by SRMKzilla, Mozilla as a member in Technology and Logistics, Crisis** :
- **Best Project Award by Department of Physics Nanotechnology, SRM at SRM University** :
- **Certificate of Merit by Aptech Limited, India for Completing coursework on PHP MySQL** :
- **Grandfinalist of C19 Covid Hackathon** :
- **Top 2 Teams from India in Google, Community Hackathon** :
- **Organizer of Tech team for Aaruush, Techno-management Fest** :
- **Received a Funded Project from UP Police, Government of India** :
- **Selected for Research Project in Collaboration with Queensland University, Government of Singapore and India:**
- **Completed SPARC Research Project on "Detection of Early Diabetic Retinopathy" in collaboration with SRM University, IIT Kharagpur, and UC Davis:**
- **Top 10 team of SIH Internals Hackathon:**
- **Built surakshacovid19.tech and was interviewed by newspaper and news channels:**

LANGUAGES

- * **ENGLISH (Professional)** :
- * **HINDI (Bilingual/Native)** :
- * **BENGALI (Bilingual/Native)** :
- * **JAPANESE (Elementary)** :